## IN RNATIONAL SEARCH REPORT

International Application No

27/07/2005

Authorized officer

Weis, T

		PC	CT/EP2004/051458
A. CLASSI IPC 7	HCATION OF SUBJECT MATTER H01L23/538 H01L25/16		
According to	o International Patent Classification (IPC) or to both national da	ssification and IPC	
	SEARCHED		
IPC 7-	ocumentation searched (classification system tollowed by class $-H01L$	iffication symbols)	· Source Control of the Control of t
Documenta	tion searched other than minimum documentation to the extent	that such documents are included	in the fields searched
Electronic d	data base consulted during the international search (name of da	ita base and, where practical, sea	rch terms used)
EPO-In	ternal		,
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of t	he relevant passages	Relevant to claim No.
Χ ,	EP 1 161 124 A (ALPS ELECTRIC 5 December 2001 (2001-12-05) paragraphs '0021!, '0026! - '	· ·	1-7
	paragraphs '0033! - '0038! figures 2,4,8-10	0030:	
Y	US 6 359 331 B1 (RINEHART LAWR ET AL) 19 March 2002 (2002-03- column 3, line 15 - column 4, claims 1,3,4 figures 4,5c	-19)	1~10
		_1	
		<del>-/</del>	
		,	1
			·
X Fur	ther documents are listed in the continuation of box C.	X Patent family mem	bers are listed in annex.
	ategories of cited documents :	"T" later document publishe	ed after the International filing date t in conflict with the application but
"E" earlier	nent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international	cited to understand the invention	e principle or theory underlying the
"L" docum	date ent which may throw doubts on priority claim(s) or it is cited to establish the publication date of another	cannot be considered involve an inventive at	relevance; the claimed invention novel or cannot be considered to ep when the document is taken alone
cltation of their	on or other special reason (as specified) ment referring to an oral disclosure, use, exhibition or means	cannot be considered document is combined ments, such combinat	relevance; the claimed invention to Involve an inventive step when the d with one or more other such docu- ion being obvious to a person skilled
"P" docum later	nent published prior to the international filing date but than the priority date claimed	"&" document member of the	ne same patent family
Date of the	actual completion of the international search	Date of malling of the in	nternational search report

15 July 2005

Ing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016

Name and mailing address of the ISA

## IN RNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051458

Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/EP2004/051458	
ategory *		Relevant to	claim No
J == /	Appropriate, or the lateral appearages	, relevant D	waiti NO.
Υ	WO 03/030247 A (SIEMENS AKTIENGESELLSCHAFT; HAESE, KERSTIN; AMIGUES, LAURENCE; SCHWARZ) 10 April 2003 (2003-04-10) page 2, line 30 - page 13, line 20 claims 1-3,8,10-12 figures 1,2	1-1	0
A	US 2002/034088 A1 (PARKHILL SCOTT ET AL) 21 March 2002 (2002-03-21) paragraphs '0035!, '0036! paragraphs '0040! - '0042! paragraphs '0047! - '0049! claims 1,5,8,9,13,17,19 figures 3,5,10-12	1,2	,6,7
A	US 5 559 374 A (OHTA ET AL) 24 September 1996 (1996-09-24) column 4, line 22 - column 6, line 55 figures 8-12	1,2	2,6,7
A	US 6 365 498 B1 (CHU TSUNG-YAO ET AL) 2 April 2002 (2002-04-02) the whole document	1,2 8-1	:,4, 0
	·		
		-	
	·		
	*		•
			-